

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 11275373
PUBLICATION DATE : 08-10-99

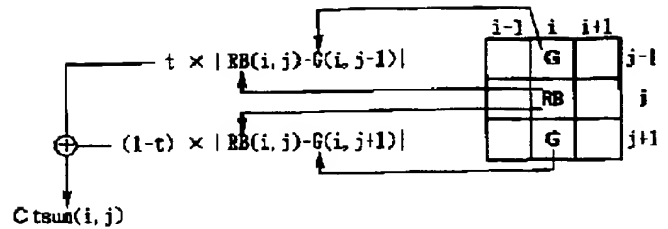
APPLICATION DATE : 19-03-98
APPLICATION NUMBER : 10070454

APPLICANT : NIKON CORP;

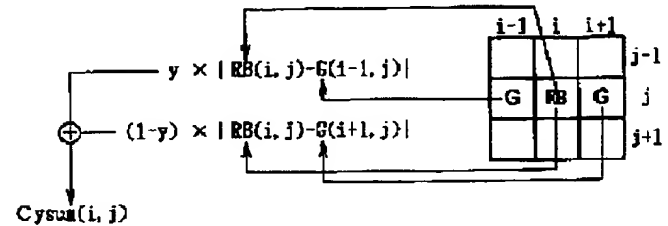
INVENTOR : UTAGAWA TAKESHI;

INT.CL. : H04N 1/60 G06T 1/00 G06T 5/20
H04N 1/46 H04N 9/64

TITLE : INTERPOLATION PROCESSING METHOD



(A)



(B)

ABSTRACT : PROBLEM TO BE SOLVED: To obtain an interpolation quantity with high accuracy by deciding respective vertical and horizontal directions through the use of the dimension of color information of an empty grid point and the dimensions of color information of grid points that adjoin the empty grid point at least in one of vertical and horizontal directions, selecting one having stronger similarity or performing weighted addition of the dimensions of color information of grid points existing vertically and horizontally by similarity.

SOLUTION: An empty grid point (i, j) that becomes an object for interpolation processing and dimensions $G(i, j-1)$, $G(i, j+1)$, $G(i-1, j)$ and $G(i+1, j)$ of color information of grid points that adjoin the empty grid point vertically and horizontally are read from an image buffer memory. That is, the dimensions of color information which are used at the time of calculating vertical and horizontal similarities of the empty grid point that becomes an object for interpolation processing are read from the image buffer memory and a similarity calculating part calculates a vertical similarity $C_{tsun}(i, j)$ by using $RB(i, j)$, $G(i, j-1)$ and $G(i, j+1)$.

COPYRIGHT: (C)1999,JPO

BEST AVAILABLE COPY